

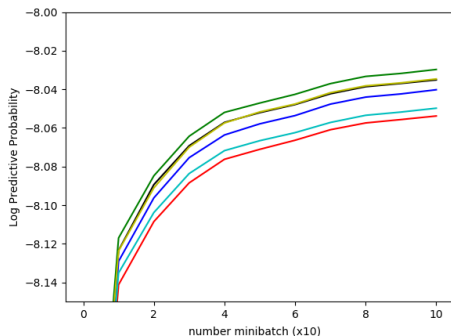
# Biterm Topic Model

Nguyễn Bá Cương

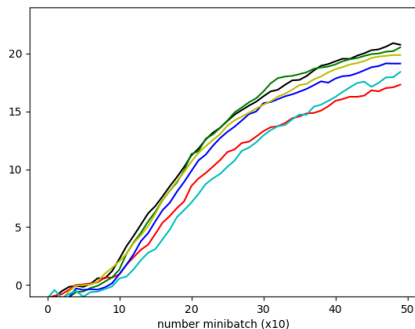
School of Information and Communication Technology Hanoi University of Science and Technology

Data Science Lab , 2017

# Tập dữ liệu Yahoo, $K=50$ , đo đo perplexity



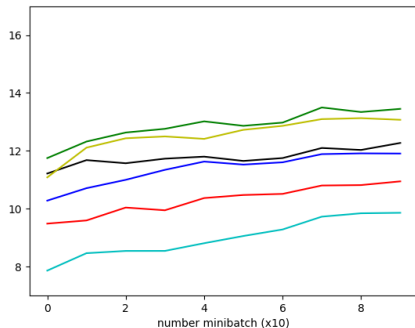
(a) Online Gibbs sampling



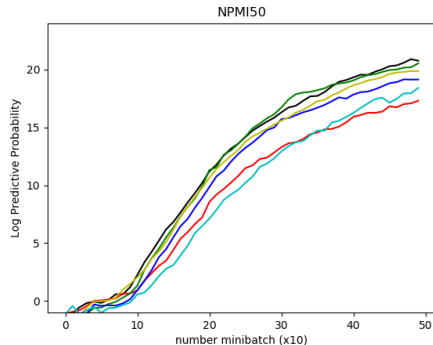
(b) Online VB



# Tập dữ liệu Yahoo, $K = 50$ , sử dụng độ đo NPMI



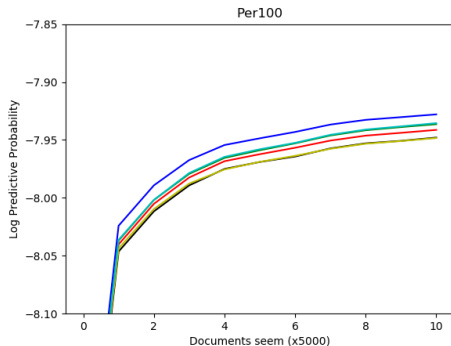
(c) Online Gibbs sampling



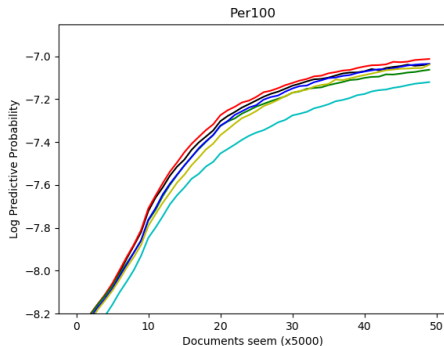
(d) Online VB



# Tập dữ liệu Yahoo, $K=100$ , đo độ perplexity



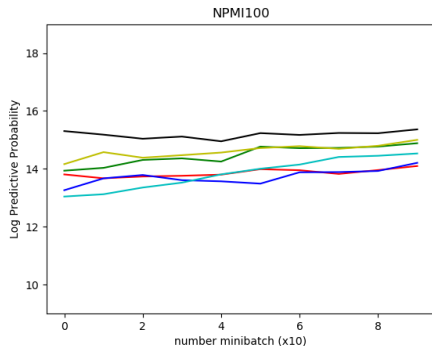
(e) Online Gibbs sampling



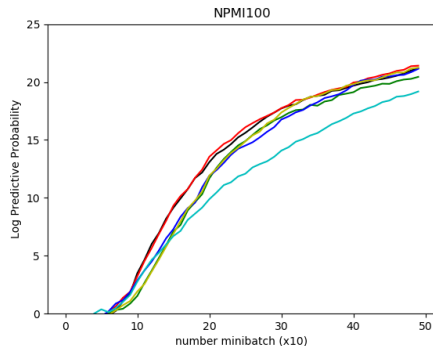
(f) Online VB



# Tập dữ liệu Yahoo, $K = 100$ , sử dụng độ đo NPMI



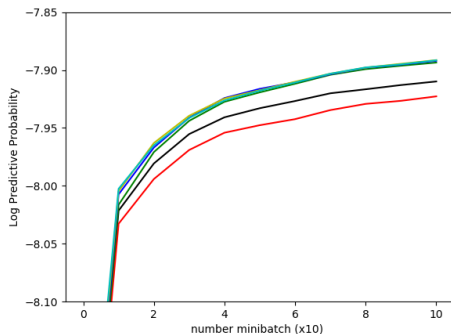
(g) Online Gibbs sampling



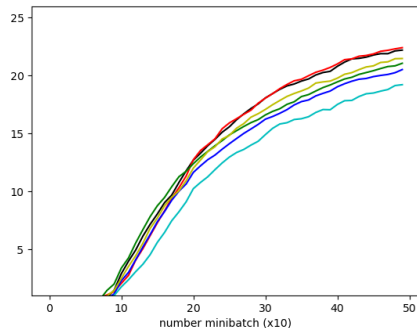
(h) Online VB



# Tập dữ liệu Yahoo, $K=150$ , đo độ perplexity



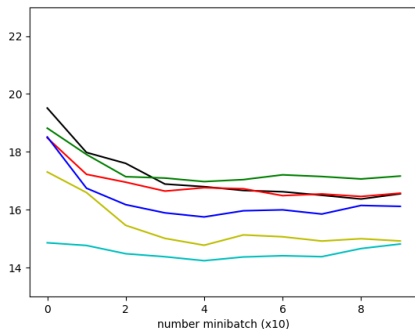
(i) Online Gibbs sampling



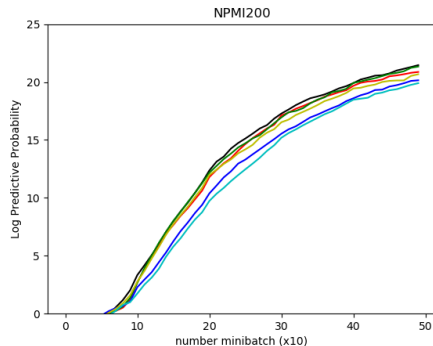
(j) Online VB



# Tập dữ liệu Yahoo, $K = 150$ , sử dụng độ đo NPMI



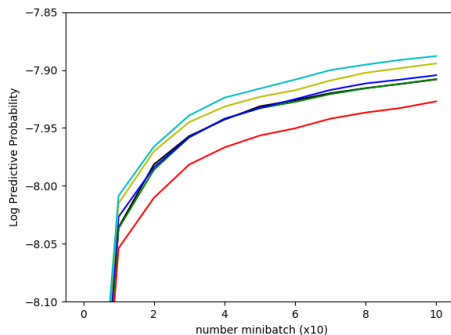
(k) Online Gibbs sampling



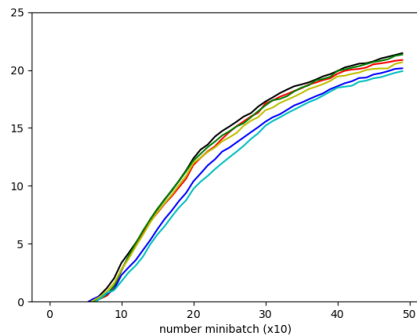
(l) Online VB



# Tập dữ liệu Yahoo, $K=200$ , đo độ perplexity



(m) Online Gibbs sampling

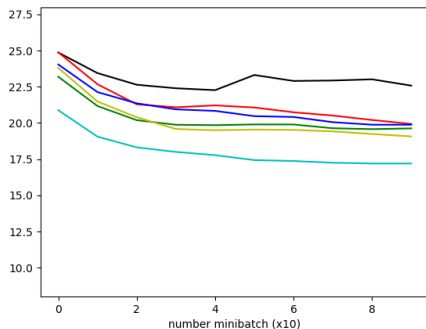


(n) Online VB

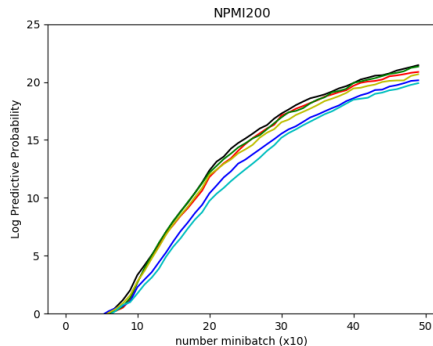




# Tập dữ liệu Yahoo, $K = 200$ , sử dụng độ đo NPMI



(o) Online Gibbs sampling



(p) Online VB

